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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/702,361	11/06/2003	Melissa Lee Merlau	A01462	8529
	7590 02/26/2007 HAAS COMPANY		EXAMINER	
PATENT DEPA	ARTMENT		BARHAM, BETHANY P	
	DENCE MALL WEST IIA, PA 19106-2399		ART UNIT	PAPER NUMBER
			1615	
	·			
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	02/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/702,361	MERLAU ET AL.			
		Examiner	Art Unit			
	<u> </u>	Bethany P. Barham	1615			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of this communication. SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period or to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) 又	Responsive to communication(s) filed on <u>25 September 2006</u> .					
•	This action is FINAL . 2b) ☐ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
-,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	4)⊠ Claim(s) <u>1 and 7-9</u> is/are pending in the application.					
•	4a) Of the above claim(s) <u>8 and 9</u> is/are withdrawn from consideration.					
	5) Claim(s) is/are allowed.					
6)⊠	⊠ Claim(s) <u>1 and 7</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□						
Applicati	on Papers		·			
9) ☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d).			
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority ι	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	• •	_				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Summary

Receipt is acknowledged of the Applicants' Amended Claims filed on 09/25/2006.

Claims 1 and 7-9 are pending in this action. Claims 8-9 remain withdrawn. Claims 1 and 7 are rejected.

As a result of Applicant's amendments, the 35 USC §102 rejections over JP 103513/92 and WO 99/63955 (English translated) are hereby withdrawn. The following rejections of record (04/24/2006) are maintained.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 6,136,884 ('884).

'884 disclose a latex composition for hair care (abstract). Said composition
comprises a hybrid graft copolymer further comprising at least two distinct
polymers (column 2, lines 38-43 and Claims 1-19). Specifically, the two distinct
polymers used in the invention advanced by '884 can be a (1) sulfopolyester

copolymer and a (2) acid-functional polymer (Claims 1 and 17). Like the instant application, the polymer system advanced by '884 comprises homopolymer and copolymers derived from polyesters (column 4, lines.7-8), ethylenically unsaturated monomers (column 4, lines 44-65), and acid functionalized monomers, such as methacrylic acid (column 4, lines 16-43). The glass transition temperature (Tg) of the two polymers can also be different: (1) the Tg of the sulfopolyester group can be between about 15 to about 60° C, and (2) the Tg of the acid-functional polymer can be between about 40 to about 80° C (Claims 8 and 19, column 3, lines 43-44, and column 7, lines 12-20). Thus, like the instant application, the difference in Tg between the first polymer, an acid-functional polymer, and the second polymer, a sulfopolyester copolymer, can be 20° C or more. Giving the instant claim set the broadest reasonable interpretation, it is the examiner's position that the phrases a "first polymer or polymer mixture" and "a second polymer or polymer mixture" encompass graft copolymers comprising distinct polymer segments. The "first" segment of the graft copolymer is fused with the "second segment, resulting in a graft copolymer comprising a "mixture" of two distinct polymer segments. As set forth in '884, the glass transition temperature (Tg) of the two polymers can also be different: (1) the Tg of the sulfopolyester group can be between about 15 to about 60° C, and (2) the Tg of the acid-functional polymer can be between about 40 to about 80° C (Claims 8 and 19, column 3, lines 43-44, and column 7, lines 12-20). Thus, like the instant application, the difference in Tg between the first polymer, an acid-functional

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polymer, and the second polymer, a sulfopolyester Copolymer, can be 20° C or more.

Additionally, it should be noted that the preparation of the polymer-based
composition using a multistage polymerization process is considered to be a
process limitation. Giving the instant claim set its broadest reasonable
interpretation, product-by-process claims are treated as product claims. As such,
the process limitation is afforded no patentable weight.

The polymer system advanced by '884 can be dissolved together in a cosmetically acceptable solvent (column 8, lines 33-64). The hair care formulation can also be fashioned into a film (column 8, lines 14-32). It is the examiner's position that, inherently, when fashioned into a film, the composition advanced by '884 has a tensile storage modulus at 20° C of from about Ix101° Pascal to Ix108 Pascal and a storage modulus at 70° C of from about Ix109 Pascal to Ix106 Pascal. Since the essential elements of the '884 composition are identical to the instant compositions (that is, a composition comprising two polymers with different Tg values and a cosmetically acceptable solvent wherein the first polymer has a Tg between about 30 to about 250° C and the second polymer has a Tg between about 20 to about 35° C), the composition would inherently have the same physiochemical properties as the compositions set forth in the instant application. As such, it is the examiner's position that the composition advanced by '884 anticipates the compositions enumerated in the instant claim set. In conclusion, by disclosing a hybrid-graft polymer comprising a Art Unit: 1615

mixture of two distinct polymer segments wherein the difference in Tg between the first and second segments can be 20° C or more, it is the examiner's position that the instant claims are anticipated by US Patent 6,136,884 ('884).

Response to Arguments

Applicant's arguments filed 10/31/2006 have been fully considered but they are not persuasive. Applicants argue that the sulfopolyester functionality is not present in their invention. But the examiner respectfully points out that applicants claim 1 states 'functional monomers' as a preferred embodiment, sulfopolyester is a polymer resulting from functional monomers (EASTMAN AQ ®-48 is a sulfopolyester made up of dicarboxylic acid moiety, glycol moiety, sodiosulfo moiety and a hydroxyl group). Further, according to the invention of '884 the composition for hair care comprises a hybrid-graft copolymer comprising a sulfopolyester, a first acid-functional polymer, and a second acid functional polymer (claim 12 of '884). Claim 15 of '884 further specifies that the first acid-functional polymer has a Tg of about 40 to about 80 °C, and a second acid functional polymer has a Tg of about 20 to about 50 °C, which also meets the limitation of amended claim 1 of the instant application. Thus, the claims are anticipated by '884.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bethany P. Barham whose telephone number is 571-272-6175. The examiner can normally be reached on M-F from 8:30am to 5pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, can be reached on 571-272-8373. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

B.P. Barham Examiner-1615

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